

SEQUENCE LISTING

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<120> METHOD FOR IDENTIFYING GENES ENCODING SIGNAL SEQUENCES

<130> 09404/032001

<140> US 08/966,269

<141> 1997-11-07

<160> 15

<170> FastSEQ for Windows Version 3.0

<210> 1

<211> 517

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

<222> (368)...(517)

<400> 1

ggggaccgtg	tttgtggccc	ccaagccggt	gccccccatt	ttggaactca	gcgagtaggg	60
ggcggctctg	gggaagtggc	agggggcgca	gcagctgctg	cctccacttc	cctagccagg	120
tgctgaagag	gatcttcgga	gccgctctgg	cccccaggcg	ctggatgact	ggcaccagcg	180
ctcctcgcac	ctgtgttggt	gtgtgagact	tgggctggag	tgcccacgtg	gctgtggagt	240
cagtgtgatt	catgattgag	gaaacgcgtc	ctccatcctc	tctctccttg	gcactttcca	300
cacatgagga	gaagaagagc	ttctgttttag	aagacacgtg	cccagagtca	gaggccccctt	360
gcccacc atg	aag gga acc	tgt gtt ata	gca tgg	ctg ttc tca	agc ctg	409
Met	Lys	Gly	Thr	Cys	Val	Ile
1				5		Ala
						Trp
						Leu
						Phe
						Ser
						Ser
						Leu
						10

ggg	ctg	tgg	aga	ctc	gcc	cac	cca	gag	gcc	cag	ggt	acg	act	cag	tgc	457
Gly	Leu	Trp	Arg	Leu	Ala	His	Pro	Glu	Ala	Gln	Gly	Thr	Thr	Gln	Cys	
15					20					25					30	

cag	aga	aca	ctc	gag	gtg	aat	att	gtt	tcc	ccc	agc	tcc	aag	gca	aca	505
Gln	Arg	Thr	Leu	Glu	Val	Asn	Ile	Val	Ser	Pro	Ser	Ser	Lys	Ala	Thr	
				35					40					45		

ttc	agt	cca	agt													517
Phe	Ser	Pro	Ser													
				50												

<210> 2

<211> 50

<212> PRT

<213> Homo sapiens

<400> 2

Met	Lys	Gly	Thr	Cys	Val	Ile	Ala	Trp	Leu	Phe	Ser	Ser	Leu	Gly	Leu	
1				5				10					15			
Trp	Arg	Leu	Ala	His	Pro	Glu	Ala	Gln	Gly	Thr	Thr	Gln	Cys	Gln	Arg	
				20				25					30			

Thr Leu Glu Val Asn Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser
 35 40 45
 Pro Ser
 50

<210> 3
 <211> 506
 <212> DNA
 <213> Homo sapiens

<220>
 <221> CDS
 <222> (132)...(506)

<400> 3
 ttcttcctag tttctttttt ggcacaatat ttcaagttat accaagcata caatcaactc 60
 ccaagttggg atccgaattc ggcacgagcg gcacgagttg tgcttcggag accgtaagga 120
 tattgatgac c atg aga tcc ctg ctc aga acc ccc ttc ctg tgt ggc ctg 170
 Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu
 1 5 10
 ctc tgg gcc ttt tgt gcc cca ggc gcc agg gct gag gag cct gca gcc 218
 Leu Trp Ala Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala
 15 20 25
 agc ttc tcc caa ccc ggc agc atg ggc ctg gat aag aac aca gtg cac 266
 Ser Phe Ser Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His
 30 35 40 45
 gac caa gag cat atc atg gag cat cta gaa ggt gtc atc aac aaa cca 314
 Asp Gln Glu His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro
 50 55 60
 gag gcg gag atg tcg cca caa gaa ttg cag ctc cat tac ttc aaa atg 362
 Glu Ala Glu Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met
 65 70 75
 cat gat tat gat ggc aat aat ttg ctt gat ggc tta gaa ctc tcc aca 410
 His Asp Tyr Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr
 80 85 90
 gcc atc act cat gtc cat aag gag gaa ggg agt gaa cag gca cca ctc 458
 Ala Ile Thr His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu
 95 100 105
 gag gtg aat att gtt tcc ccc agc tcc aag gca aca ttc agt cca agt 506
 Glu Val Asn Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser Pro Ser
 110 115 120 125

<210> 4
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 4
 Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu Trp Ala
 1 5 10 15
 Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser Phe Ser
 20 25 30
 Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp Gln Glu
 35 40 45

His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Pro Glu Ala Glu
 50 55 60
 Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr
 65 70 75 80
 Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr
 85 90 95
 His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu Glu Val Asn
 100 105 110
 Ile Val Ser Pro Ser Ser Lys Ala Thr Phe Ser Pro Ser
 115 120 125

<210> 5
 <211> 32
 <212> PRT
 <213> Mus musculus

<400> 5
 Met Lys Gly Ala Cys Ile Leu Ala Trp Leu Phe Ser Ser Leu Gly Val
 1 5 10 15
 Trp Arg Leu Ala Arg Pro Glu Thr Gln Asp Pro Ala Lys Cys Gln Arg
 20 25 30

<210> 6
 <211> 45
 <212> PRT
 <213> Homo sapiens

<400> 6
 Met Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr
 1 5 10 15
 Asp Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr
 20 25 30
 His Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu
 35 40 45

<210> 7
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 7
 ctcgagctca gagaatcagc aactgtga

28

<210> 8
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

<400> 8
 agatcttcat acttttctca tgttgatttt cc

32

<210> 9
 <211> 29
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer

 <400> 9
 ctcgaggtga atattgtttc cccagctc 29

 <210> 10
 <211> 36
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> primer

 <400> 10
 ctcgaggata atggtgaata ttgtttcccc cagctc 36

 <210> 11
 <211> 16
 <212> DNA
 <213> Artificial Sequence

 <220>
 <221> primer
 <222> (11)...(16)
 <223> where "n" at positions 11-16 is any one of A, T, G, or C

 <400> 11
 ctgactcgag nnnnnn 16

 <210> 12
 <211> 24
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> primer

 <400> 12
 gagcaacggt atacggcctt cctt 24

 <210> 13
 <211> 22
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> primer

 <400> 13
 gggatatgcc ccattatcca tc 22

 <210> 14
 <211> 32
 <212> PRT
 <213> Homo sapiens

 <400> 14
 Met Lys Gly Thr Cys Val Ile Ala Trp Leu Phe Ser Ser Leu Gly Leu
 1 5 10 15
 Trp Arg Leu Ala His Pro Glu Ala Gln Gly Thr Thr Gln Cys Gln Arg
 20 25 30

<210> 15
 <211> 108
 <212> PRT
 <213> Homo sapiens

<400> 15
 Met Arg Ser Leu Leu Arg Thr Pro Phe Leu Cys Gly Leu Leu Trp Ala
 1 5 10 15
 Phe Cys Ala Pro Gly Ala Arg Ala Glu Glu Pro Ala Ala Ser Phe Ser
 20 25 30
 Gln Pro Gly Ser Met Gly Leu Asp Lys Asn Thr Val His Asp Gln Glu
 35 40 45
 His Ile Met Glu His Leu Glu Gly Val Ile Asn Lys Glu Ala Glu Met
 50 55 60
 Ser Pro Gln Glu Leu Gln Leu His Tyr Phe Lys Met His Asp Tyr Asp
 65 70 75 80
 Gly Asn Asn Leu Leu Asp Gly Leu Glu Leu Ser Thr Ala Ile Thr His
 85 90 95
 Val His Lys Glu Glu Gly Ser Glu Gln Ala Pro Leu
 100 105